

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-18 (Canceled)

<sup>1</sup>  
Claim ~~19~~ (Previously added): An isolated CD39L4 polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5.

<sup>2</sup>  
Claim ~~20~~ (Currently amended): An isolated polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding~~ the amino acid sequence of SEQ ID NO: 6.

<sup>3</sup>  
ba Claim ~~21~~ (Currently amended): An isolated polynucleotide comprising the a-nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding a fragment of~~ the amino acid sequence of SEQ ID NO: 6, or the mature protein portion thereof, said amino acid sequence fragment having phosphohydrolase activity.

Claim 22 (Canceled)

<sup>2</sup>  
Claim 23 (Currently amended): An isolated polynucleotide encoding a polypeptide having phosphohydrolase activity, said polynucleotide comprising a nucleotide sequence that has at least ~~about~~ 90% sequence identity to SEQ ID NO: 5.

<sup>4</sup>  
Claim ~~24~~ (Currently amended): An isolated polynucleotide encoding a polypeptide having phosphohydrolase activity, wherein said polynucleotide hybridizes under highly stringent conditions, wherein said conditions are hybridization to a filter-bound DNA in 0.5 M NaHPO<sub>4</sub>, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C, and washing in 0.1X SSC/0.1% SDS at 68°C, to the complement of SEQ ID NO: 5.

C <sup>5</sup>  
Claim <sup>5</sup>~~25~~ (Currently amended): The polynucleotide according to any one of claims <sup>3</sup>~~20, 21, 23~~ or <sup>4</sup>~~24~~ that comprises nucleotides 247-1530, 385-450, 613-660, 745-807 or 823-888 of SEQ ID NO: 5.

C <sup>6</sup>  
Claim <sup>6</sup>~~26~~ (Previously added): The polynucleotide according to any one of claims <sup>1-4</sup>~~19-24~~ that is a DNA. <sup>19-21 and 24</sup>

C <sup>7</sup>  
Claim <sup>7</sup>~~27~~ (Previously added): A vector comprising the polynucleotide of any one of claims <sup>1-4</sup>~~19-24~~ and <sup>19-21 and 24</sup>.

<sup>8</sup>  
Claim <sup>8</sup>~~28~~ (Previously added): A host cell comprising the vector of claim <sup>7</sup>~~27~~.

D <sup>9</sup>  
Claim <sup>9</sup>~~29~~ (Currently amended): A host cell genetically engineered to contain a polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding~~ the amino acid sequence of SEQ ID NO: 6 in operative association with a regulatory sequence that controls expression of the polynucleotide in the host cell.

<sup>10</sup>  
Claim <sup>10</sup>~~30~~ (Previously added): A method of making a CD39L4 polypeptide comprising the steps of culturing the host cell of claim <sup>8</sup>~~28~~ in suitable culture medium and isolating the polypeptide from the cell or the culture medium.

<sup>11</sup>  
Claim <sup>11</sup>~~31~~ (Previously added): A method of making a CD39L4 polypeptide comprising the steps of culturing the host cell of claim <sup>9</sup>~~29~~ in suitable culture medium and isolating the polypeptide from the cell or the culture medium.